



# ALR-9650 Gen 2 RFID Reader with Integrated Antenna

Complete, Easy, Single-Antenna RFID Solution

The Alien® ALR-9650 is the ideal solution for single and two-antenna applications. The reader electronics and a high-performance, circularly polarized antenna reside in a single package, resulting in a simple, inexpensive and low profile RFID installation. A second antenna port enables 2-antenna applications.



## Simple, Low Profile, Gen 2 RFID Solution

With its integrated antenna, Power-Over Ethernet (POE) and out-of-the-box software compatibility, the ALR-9650 Gen 2 RFID Reader is a simple, low profile solution that enables new users to start reading tags and developing solutions immediately.

- › Simple, low-profile solution for single antenna applications
- › Integrated, high performance circular antenna — only 9"x 9"
- › POE option eliminates cost of AC power drop
- › EPC Gen 2 Dense Reader Interoperable
- › Second antenna port enables 2-antenna applications
- › Manageable and upgradeable

## Easy to Integrate

The ALR-9650 communicates via the popular Alien Reader Protocol, with support for software platforms such as Microsoft BizTalk and for popular RFID applications provided by Oat Systems, GlobeRanger and others. A well-documented SDK featuring .NET and Java libraries enables easy development of custom interfaces to control the reader if desired. The reader ships with handy Alien RFID Gateway software that enables the user to begin solution development immediately.

## Low System Cost

The cost of installing AC power can sometimes rival the cost of the reader. The ALR-9650's POE capability allows power to be delivered over properly-equipped local area networks, eliminating expensive AC wiring installation. (A standard AC/DC power converter is provided if POE is not available.) The combination of this capability with the elimination of the external antenna significantly reduces the cost and complexity of installing an RFID read point.

## Small Footprint

The ALR-9650 takes up little space; at only 9 inches square it uses less than half the real-estate of a typical reader and antenna system. Combined with the elimination of messy cables for antennas and power, the ALR-9650 easily fits into a variety of tight spaces and enables neat and tidy placement when it is visible to consumers or the general public.



## ALR-9650 Gen 2 RFID Reader with Integrated Antenna

Complete, Easy, Single-Antenna RFID Solution

Model Number	ALR 9650
Supported RFID Tag Protocols	EPC Gen 2; ISO 18000-6c
Reader Protocols	Alien Reader Protocol
LAN Protocols	DHCP, TCP/IP, NTP
Dense Reader Management	Dense Reader Mode, Event triggering
Frequency	902.75 MHz – 927.25 MHz
Channels	50
Channel Spacing	500 KHz
RF Power	Max; 4 watts EIRP with internal antenna
Power	24 VDC supplied via an AC/DC converter or POE (IEEE 802.3af). Unit ships with a Power Sourcing Equipment (PSE) module
Communications	RS-232 (DB-9 F), LAN TCPI/IP (RJ-45)
Antennas	One internal, one external port with RTNC connector
General Purpose Inputs/Outputs	2 inputs, 2 outputs, TTL compatible
Dimensions	(L) 9.13" x (W) 9.0" x (D) 2.0"
Weight	1.0 kg (2.2 lb) max
Operating Temperature	0°C to +50°C (32°F to +122°F)
LED Indicators	Power, LAN Link, LAN Active, RFon, Read, Fault
Software SDK	Java and .NET APIs
Compliance Certification	Emissions: FCC Part 15 Safety: UL 60950



Copyright © 2007 Alien Technology Corporation. All rights reserved.  
Alien, Alien Technology, and the Alien Technology logo are trademarks  
or registered trademarks of Alien Technology Corporation in the  
U.S. and other countries. Other trademarks are the property of their  
respective owners.

TransTech Systems, Inc.  
12142 NE Sky Lane, Suite 130 Aurora, OR 97002  
Ph: 888-843-3643 Fax: 503-682-0166  
sales@ttsys.com www.ttsys.com